

Application No. 09/346,361

REMARKS

The above identified patent application has been amended and reconsideration and reexamination are hereby requested. Claims 4 - 6 and 11 - 27 remain unchanged. New Claims 28 - 39 have been added. The Applicants submit that the new claims do not add new matter and are patentable over the prior art.

The Examiner has rejected Claims 4 - 6, 11 - 13, and 26 - 27 under 35 U.S.C. §102(b) as being anticipated by Adrian et al. and under 35 U.S.C. as being unpatentable over Howatt.

The Applicants' Claim 4 calls for (underlining added for emphasis) ... A semiconductor H-bridge controller wherein its outputs consist of three states.

The present invention involves a semiconductor H-bridge control device which takes two states (1,0 as seen in Fig. 10) and generates as its bridge output three states (1,0,-1 as seen in Fig. 10).

Adrian et al. merely teaches an typical H-bridge which takes three states (+,0,- as seen in Fig. 9B) and merely passes through the bridge an output having corresponding three states.

Howatt similarly teaches a typical H-bridge three states (+,0,- and merely passes through the bridge an output having corresponding three states.

As such, the Applicants submit that the semiconductor H-bridge controller itself generates a three state output and, therefore, that Claim 4 is not anticipated by Adrian et al. under 35 U.S.C. §102(b) or unpatentable over Howatt under 35 U.S.C. §103.

Claims 5 and 12 are dependent on Claim 4. As such, these claims are believed allowable based upon Claim 4.

The Applicants' Claim 6 calls for (underlining added for emphasis) ... A digital amplifier comprising: a modulation stage for signal shaping; and a semiconductor H-bridge controller wherein its outputs consist of three states.

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As such, Applicants submit that Claim 6 is not anticipated by Adrian et al. under 35 U.S.C. §102(b) or unpatentable over Howatt under 35 U.S.C. §103 for the same reasons set forth above for Claim 4.

Claims 13 is dependent on Claim 6. As such, Claim 13 is believed allowable based upon Claim 6.

Applicants' Claim 11 calls for (underlining added for emphasis) ... A digital amplifier comprising: a modulation stage for signal shaping; and a semiconductor H-bridge controller which generates a multi-state output.

As such, Applicants submit that Claim 11 is not anticipated by Adrian et al. under 35 U.S.C. §102(b) or unpatentable over Howatt under 35 U.S.C. §103 for the same reasons set forth above for Claim 4.

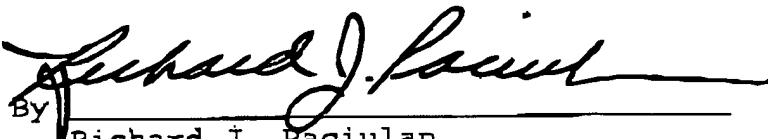
Applicants' Claim 26 calls for (underlining added for emphasis) ... A semiconductor H-bridge controller which generates a multi-state output, with at least three states.

As such, Applicants submit that Claim 26 is not anticipated by Adrian et al. under 35 U.S.C. §102(b) or unpatentable over Howatt under 35 U.S.C. §103 for the same reasons set forth above for Claim 4.

Claim 27 is dependent on Claim 26. As such, Claim 27 is believed allowable based upon Claim 26.

Accordingly, in view of the above amendment and remarks it is submitted that the claims are patentably distinct over the prior art and that all the rejections to the claims have been overcome. Reconsideration and reexamination of the above Application is requested.

Respectfully submitted,
CHRISTIE, PARKER & HALE, LLP

By 

Richard J. Paciulan
Reg. No. 28,248
626/795-9900

RJP/cah

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